

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	395	(authenticat\$5 or authoriz\$5) same (mobile or wireless) same PLMN	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 14:58
L2	225	(authenticat\$5 or authoriz\$5) with (mobile or wireless) same PLMN	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 14:58
L3	1	2 same (transactions near5 (device or PC or client or user or wireline))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:05
L4	105	2 and (@ad<"20011108" or @rlad<"20011108")	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:01
L5	29	2 same (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5)	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:06
L6	13	5 and (@ad<"20011108" or @rlad<"20011108")	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:06
L7	0	2 same (pending near3 (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:03
L8	0	2 same (pending near5 (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:04
L9	0	2 same (pending same (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:04
L10	0	1 same (pending same (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:05
L11	98	1 same Internet	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:05
L12	1	11 same (transactions near5 (device or PC or client or user or wireline))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:05
L13	13	11 same (transact\$5 or trad\$5 or purchas\$5 or buy\$5 or order\$5 or shop\$5)	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:06
L14	7	13 and (@ad<"20011108" or @rlad<"20011108")	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:08
L15	57692	"709"/\$.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:09

## EAST Search History

L16	12338	"726"/\$.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:09
L17	51789	"705"/\$.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:09
L18	3592	709/229.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:10
L19	3044	709/225.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:10
L20	7959	709/203.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:10
L21	5925	705/26.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:10
L22	773	726/3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:11
L23	311	726/21.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:11
L24	12	2 and 15	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L25	3	2 and 16	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L26	2	2 and 17	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L27	1	2 and 18	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L28	2	2 and 19	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L29	0	2 and 20	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L30	0	2 and 21	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12

## EAST Search History

L31	0	2 and 22	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L32	0	2 and 23	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:12
L33	23	1 and 15	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L34	13	6	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L35	4	1 and 16	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L36	4	1 and 17	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L37	2	1 and 18	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L38	3	1 and 19	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:13
L39	0	1 and 20	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:14
L40	0	1 and 21	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:14
L41	0	1 and 22	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:14
L42	0	1 and 23	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 15:14

Terms used: [authorizing internet transaction using PLMN](#)

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Relevance scale



1 [Q focus: session initiation protocol: Making SIP make cents](#)

Jason Fischl, Hannes Tschofenig  
March 2007 **Queue**, Volume 5 Issue 2

**Publisher:** ACM PressFull text available: pdf(546.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

P2P payments using SIP could enable new classes of applications and business models.

2 [Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration](#)

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris  
April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

**Publisher:** Kluwer Academic PublishersFull text available: pdf(107.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The logic ruling the user and network authentication as well as the data ciphering in the GSM architecture is characterized, regarding the transferring of the parameters employed in these processes, by transactions between three nodes of the system, that is the MS, actually the SIM, the visited MSC/VLR, and the AuC, which is attached to the HLR in most cases. The GPRS and the UMTS architecture carry the heritage of the GSM's philosophy regarding the user/network authentication and the data ciphe ...

**Keywords:** PKIs, PLMN, asymmetric cryptography

3 [GIP: an infrastructure for mobile intranets deployment](#)

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris  
July 2003 **Wireless Networks**, Volume 9 Issue 4

**Publisher:** Kluwer Academic PublishersFull text available: pdf(729.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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**Keywords:** GPRS, UMTS, mobile intranets

4 [Unicast and Multicast in Next Generation Wireless Networks: Multicast in 3G](#)

 networks:: employment of existing IP multicast protocols in UMTS

Mariann Hauge, Øyvind Kure

September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia WOWMOM '02**

Publisher: ACM Press

Full text available:  pdf(338.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article we discuss the use of commonly deployed IP multicast protocols in UMTS networks. We analyze three possible UMTS multicast architectures, all employing standard IP multicast protocols. We study the architectures' ability to handle: group management, data-security, authentication and authorization of multicast source/receivers, multicast session identification, terminal mobility and collection of billing data. For one of the architectures we quantify the performance of the design f ...

**Keywords:** IGMP, SSM, UMTS, multicast, wireless internet

## 5 Using certified policies to regulate E-commerce transactions

 Victoria Ungureanu

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(404.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

E-commerce regulations are usually embedded in mutually agreed upon contracts. Generally, these contracts enumerate agents authorized to participate in transactions, and spell out such things like rights and obligations of each partner, and terms and conditions of the trade. An enterprise may be concurrently bound by a set of different contracts that regulate the trading relations with its various clients and suppliers. This set is dynamic because new contracts are constantly being established, ...

**Keywords:** Contract terms, Enforcement, Scalability

## 6 GIP: an infrastructure for mobile intranets development

 Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

July 2001 **Proceedings of the first workshop on Wireless mobile internet WMI '01**

Publisher: ACM Press

Full text available:  pdf(566.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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**Keywords:** GPRS, UMTS, mobile intranet

## 7 Delegation logic: A logic-based approach to distributed authorization

 Ninghui Li, Benjamin N. Grosof, Joan Feigenbaum

February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  pdf(316.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the problem of authorization in large-scale, open, distributed systems. Authorization decisions are needed in electronic commerce, mobile-code execution, remote resource sharing, privacy protection, and many other applications. We adopt the trust-management approach, in which "authorization" is viewed as a "*proof-of-compliance*"

problem: Does a set of credentials prove that a request complies with a policy? We develop a logic-based language, called *Delegation Logic* (DL), t ...

**Keywords:** Access control, Delegation Logic, distributed system security, logic programs, trust management

**8 On interdomain routing security and pretty secure BGP (psBGP)**

 P.C. van Oorschot, Tao Wan, Evangelos Kranakis

July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10

Issue 3

Publisher: ACM Press

Full text available:  pdf(469.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is well known that the Border Gateway Protocol (BGP), the IETF standard interdomain routing protocol, is vulnerable to a variety of attacks, and that a single misconfigured or malicious BGP speaker could result in large-scale service disruption. In this paper, we present *Pretty Secure BGP (psBGP)*---a proposal for securing BGP, including an architectural overview, design details for significant aspects, and preliminary security and operational analysis. psBGP differs from other secur ...

**Keywords:** BGP, authentication, certificates, interdomain routing, public-key infrastructure, secure routing protocols, trust

**9 Unlinkable serial transactions: protocols and applications**

 Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag

November 1999 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 2 Issue 4

Publisher: ACM Press

Full text available:  pdf(184.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

**Keywords:** anonymity, blinding, cryptographic protocols, unlinkable serial transactions

**10 Certificate-based authorization policy in a PKI environment**

 Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 6 Issue 4

Publisher: ACM Press

Full text available:  pdf(233.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords:** Public key infrastructure, XML, digital certificates

**11 Automating the small purchase solicitation cycle for non-EDI trading partners using Internet technologies**

 Kenneth W. Copeland, C. Jinshong Hwang

Publisher: ACM Press

Full text available: [pdf\(843.27 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



**12 Just fast keying: Key agreement in a hostile internet**

✉ William Aiello, Steven M. Bellovin, Matt Blaze, Ran Canetti, John Ioannidis, Angelos D. Keromytis, Omer Reingold

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: [pdf\(324.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe Just Fast Keying (JFK), a new key-exchange protocol, primarily designed for use in the IP security architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of tradeoffs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

**Keywords:** Cryptography, denial-of-service attacks



**13 A composable framework for secure multi-modal access to internet services from Post-PC devices**

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(340.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

**Keywords:** internet, middleware, post-PC, security, transcoding



**14 COCA: A secure distributed online certification authority**

✉ Lidong Zhou, Fred B. Schneider, Robbert Van Renesse

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: [pdf\(448.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

COCA is a fault-tolerant and secure online certification authority that has been built and deployed both in a local area network and in the Internet. Extremely weak assumptions characterize environments in which COCA's protocols execute correctly: no assumption is made about execution speed and message delivery delays; channels are expected to exhibit only intermittent reliability; and with  $3t + 1$  COCA servers up to  $t$  may be faulty or compromised. COCA is the first system to integr ...

**Keywords:** Byzantine quorum systems, Certification authority, denial of service, proactive secret-sharing, public key infrastructure, threshold cryptography



**15 ObjectGlobe: Ubiquitous query processing on the Internet**

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzam, K. Stocker

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data and query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

**Keywords:** Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

**16 An Internet multicast system for the stock market**

 August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(296.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We are moving toward an international, 24-hour, distributed, electronic stock exchange. The exchange will use the global Internet, or internet technology. This system is a natural application of multicast because there are a large number of receivers that should receive the same information simultaneously. The data requirements for the stock exchange are discussed. The current multicast protocols lack the reliability, fairness, and scalability needed in this application. We describe a distr ...

**Keywords:** multicast

**17 Trust management for IPsec**

 May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(321.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

IPsec is the standard suite of protocols for network-layer confidentiality and authentication of Internet traffic. The IPsec protocols, however, do not address the policies for how protected traffic should be handled at security end points. This article introduces an efficient policy management scheme for IPsec, based on the principles of trust management. A compliance check is added to the IPsec architecture that tests packet filters proposed when new security associations are created for confo ...

**Keywords:** Credentials, IPsec, KeyNote, network security, policy, trust management

**18 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new**

 world

Marjory S. Blumenthal, David D. Clark

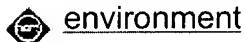
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(176.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

**19 Location management for mobile commerce applications in wireless Internet** 



Upkar Varshney

August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available:  pdf(630.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With recent advances in devices, middleware, applications and networking infrastructure, the wireless Internet is becoming a reality. We believe that some of the major drivers of the wireless Internet will be emerging mobile applications such as mobile commerce. Although many of these are futuristic, some applications including user-and location-specific mobile advertising, location-based services, and mobile financial services are beginning to be commercialized. Mobile commerce applications pre ...

**Keywords:** Mobile commerce, infrastructure dependability, location management, mobile applications, satellites, wireless Internet, wireless LANs, wireless multicast

**20 Session 2: secure Web services: Designing a distributed access control processor for** 



Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available:  pdf(301.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

**Keywords:** Web services, XML, access control, security

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 Terms used: authorization and transaction and PLMN

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**1** [Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration](#)

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris  
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Publisher: Kluwer Academic Publishers

Full text available: [pdf\(107.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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**2** [GIP: an infrastructure for mobile intranets deployment](#)

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris  
 July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(729.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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**4 Unicast and Multicast in Next Generation Wireless Networks: Multicast in 3G**

 [networks:: employment of existing IP multicast protocols in UMTS](#)

Mariann Hauge, Øyvind Kure

September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia WOWMOM '02**

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Full text available:  pdf(338.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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**5 Q focus: session initiation protocol: Making SIP make cents**

 Jason Fischl, Hannes Tschofenig

March 2007 **Queue**, Volume 5 Issue 2

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Full text available:  pdf(546.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

P2P payments using SIP could enable new classes of applications and business models.

**6 Enhanced privacy and authentication for the global system for mobile communications**

Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang

July 1999 **Wireless Networks**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(204.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...

**7 Delegation logic: A logic-based approach to distributed authorization**

 Ninghui Li, Benjamin N. Grosof, Joan Feigenbaum

February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(316.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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**Keywords:** Access control, Delegation Logic, distributed system security, logic programs, trust management

**8 An authorization model for temporal and derived data: securing information portals**

 Vijayalakshmi Atluri, Avigdor Gal  
February 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 1  
**Publisher:** ACM Press  
Full text available:  pdf(406.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. In particular, the authorization specifications, as well as the granting process, are temporal by nature. Also, more often than not, the information provided by the portal is in fact derived from more than one backend data source. Therefore, any au ...

**Keywords:** Access control, authorization administration, derived data, temporal data

**9 The specification and enforcement of authorization constraints in workflow**

 management systems  
Elisa Bertino, Elena Ferrari, Vijay Atluri  
February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 1  
**Publisher:** ACM Press  
Full text available:  pdf(374.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In recent years, workflow management systems (WFMSs) have gained popularity in both research and commercial sectors. WFMSs are used to coordinate and streamline business processes. Very large WFMSs are often used in organizations with users in the range of several thousands and process instances in the range of tens and thousands. To simplify the complexity of security administration, it is common practice in many businesses to allocate a role for each activity in the process and then assig ...

**Keywords:** access control, authorization constraints, role and user planning

**10 A flexible authorization mechanism for relational data management systems**

 Elisa Bertino, Sushil Jajodia, Pierangela Samarati  
April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2  
**Publisher:** ACM Press  
Full text available:  pdf(257.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article, we present an authorization model that can be used to express a number of discretionary access control policies for relational data management systems. The model permits both positive and negative authorizations and supports exceptions at the same time. The model is flexible in that the users can specify, for each authorization they grant, whether the authorization can allow for exceptions or whether it must be strongly obeyed. It provides authorization management for group ...

**Keywords:** access control mechanism, access control policy, authorization, data management system, group management support, relational database

**11 A model of authorization for next-generation database systems**

 Fausto Rabitti, Elisa Bertino, Won Kim, Darrell Woelk  
March 1991 **ACM Transactions on Database Systems (TODS)**, Volume 16 Issue 1  
**Publisher:** ACM Press

The conventional models of authorization have been designed for database systems supporting the hierarchical, network, and relational models of data. However, these models are not adequate for next-generation database systems that support richer data models that include object-oriented concepts and semantic data modeling concepts. Rabitti, Woelk, and Kim [14] presented a preliminary model of authorization for use as the basis of an authorization mechanism in such database systems. In this p ...

**Keywords:** object-oriented database, semantic database

**12 Consistency analysis of authorization hook placement in the Linux security modules framework** 

 Trent Jaeger, Antony Edwards, Xiaolan Zhang

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  pdf(394.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a consistency analysis approach to assist the Linux community in verifying the correctness of authorization hook placement in the Linux Security Modules (LSM) framework. The LSM framework consists of a set of authorization hooks inserted into the Linux kernel to enable additional authorizations to be performed (e.g., for mandatory access control). When compared to system call interposition, authorization within the kernel has both security and performance advantages, but it is more di ...

**Keywords:** access control models, authorization mechanisms, role-based access control

**13 An authorization model for a public key management service** 

 Pierangela Samarati, Michael K. Reiter, Sushil Jajodia

November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  pdf(337.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Public key management has received considerable attention from both the research and commercial communities as a useful primitive for secure electronic commerce and secure communication. While the mechanics of certifying and revoking public keys and escrowing and recovering private keys have been widely explored, less attention has been paid to access control frameworks for regulating access to stored keys by different parties. In this article we propose such a framework for a key management ser ...

**Keywords:** Access control, authorizations specification and enforcement, public key infrastructure

**14 Modular authorization and administration** 

 Horst F. Wedde, Mario Lischka

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(986.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In large organizations the administration of access privileges (such as the assignment of access rights to a user in a particular role) is handled cooperatively through distributed administrators in various different capacities. A quorum may be necessary, or a veto may be possible for such a decision. In this paper, we present two major contributions: We develop a *role-based access control* (RBAC) approach for specifying distributed administration requirements, and procedures between admin ...

**Keywords:** Modularity, Petri-Nets, compositability, work-flow

15 Mobility and connectivity management: Mobility management challenges and issues in 4G heterogeneous networks

 Sadia Hussain, Zara Hamid, Naveed S. Khattak

May 2006 **Proceedings of the first international conference on Integrated internet ad hoc and sensor networks InterSense '06**

**Publisher:** ACM Press

Full text available:  pdf(98.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobility is one of the most invigorating features, having an enormous impact on how communication is evolving into the future. Mobility in 4G networks requires new level of mobility support as compared to traditional mobility. There is plenty of related research on mobility in next generation networks, which promises support for emerging ambient and ubiquitous communications. This paper aims to identify and explore the different issues and challenges related to mobility management in 4G heteroge ...

**Keywords:** 4G heterogeneous networks, ambient, mobility architecture, mobility management, ubiquitous

16 Certificate-based authorization policy in a PKI environment

 Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(233.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords:** Public key infrastructure, XML, digital certificates

17 Removing permissions in the flexible authorization framework

 Duminda Wijesekera, Sushil Jajodia, Francesco Parisi-Presicce, Åsa Hagström

September 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(208.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Flexible Authorization Framework (FAF) defined by Jajodia et al. [2001] provides a policy-neutral framework for specifying access control policies that is expressive enough to specify many known access control policies. Although the original formulation of FAF indicated how rules could be added to or deleted from a FAF specification, it did not address the removal of access permissions from users. We present two options for removing permissions in FAF and provide details on the option which ...

**Keywords:** Access control policy, authorization, logic programming

18 An authorization mechanism for a relational database system

 Patricia P. Griffiths, Bradford W. Wade

September 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 3

**Publisher:** ACM Press

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A multiuser database system must selectively permit users to share data, while retaining the ability to restrict data access. There must be a mechanism to provide protection and security, permitting information to be accessed only by properly authorized users. Further, when tables or restricted views of tables are created and destroyed dynamically, the granting, authentication, and revocation of authorization to use them must also be dynamic. Each of these issues and their solutions in the ...

**Keywords:** access control, authorization, data dependent authorization, database systems, privacy, protection in databases, revocation of authorization, security

**19 Using certified policies to regulate E-commerce transactions** 



Victoria Ungureanu

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(404.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

E-commerce regulations are usually embedded in mutually agreed upon contracts. Generally, these contracts enumerate agents authorized to participate in transactions, and spell out such things like rights and obligations of each partner, and terms and conditions of the trade. An enterprise may be concurrently bound by a set of different contracts that regulate the trading relations with its various clients and suppliers. This set is dynamic because new contracts are constantly being established, ...

**Keywords:** Contract terms, Enforcement, Scalability

**20 Role-based authorization constraints specification** 



Gail-Joon Ahn, Ravi Sandhu

November 2000 **ACM Transactions on Information and System Security (TISSEC)**,  
Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(282.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraints are an important aspect of role-based access control (RBAC) and are often regarded as one of the principal motivations behind RBAC. Although the importance of constraints in RBAC has been recognized for a long time, they have not received much attention. In this article, we introduce an intuitive formal language for specifying role-based authorization constraints named RCL 2000 including its basic elements, syntax, and semantics. We give soundness and completeness pr ...

**Keywords:** access control models, authorization constraints, constraints specification, role-based access control

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